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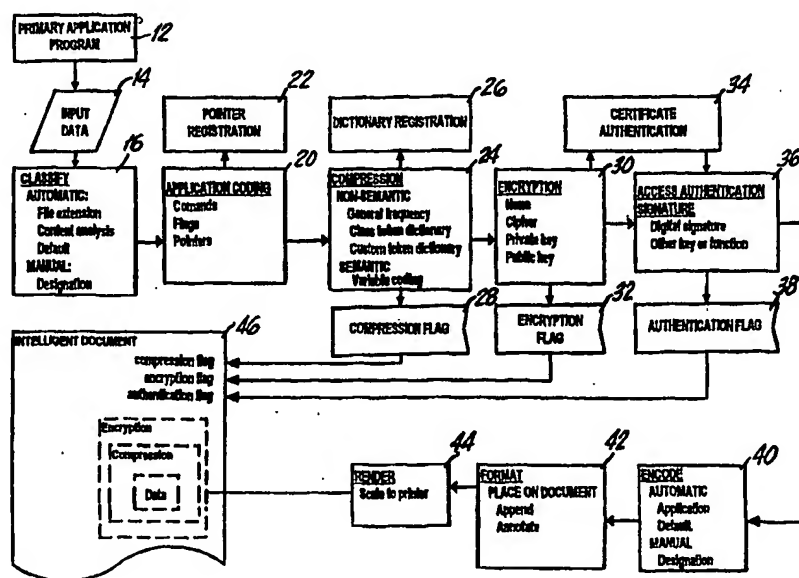|	
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(54) Title: METHOD AND SYSTEM FOR ACCESSING ELECTRONIC RESOURCES VIA MACHINE-READABLE DATA ON INTELLIGENT DOCUMENTS

(57) Abstract

A method of accessing electronic resources via machine readable data embedded on a document which comprises compressing input data with a transmitter adapted to save a first bandwidth using a compression method adapted to minimize utilization of bandwidth by the compressed input data while retaining substantially all information content of the input data and appending a compression flag to the compressed input data indicative of the compression method enabling a receiver to decompress the compressed input data. The compression step further comprises utilizing a compression dictionary adapted to map the elements and strings of the input data to minimized representations having redundancies deleted. The compression dictionary may be appended to the compressed input data (as cleartext or cyphertext) under circumstances where a bandwidth occupied by the appended compression dictionary is less than the bandwidth saved by the step of compressing the input data. The compression dictionary may also be selected by the receiver independently from the transmitter independently indexes, pointer registration, application restricted subsets or customized according to the input data content. Also the input data may be encrypted, and an encryption flag appended which is indicative of the encryption method enabling decryption via public or private key cryptosystems as well as utilizing various authentication techniques such as digital signatures to ensure that the document was created by a licensed user.